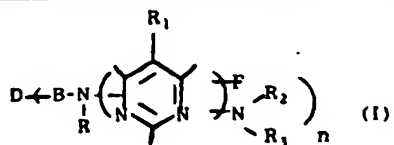
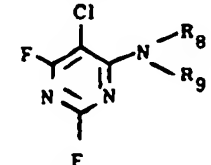
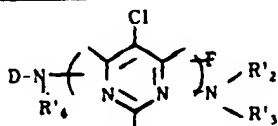


<p>85-099801/17 BAYER AG 04.10.83-DE-335956 (18.04.85) C07d-239742 C06-82720 D06p-01/38 New reactive dyes contg. chloro-fluoro-pyrimidinyl gp. - for dyeing polyamide, polyurethane and cellulose</p>	<p>A60E23 F06 FARB 04.10.83 *DE 3335.956-A 04.10.83-DE-335956 (18.04.85) C07d-239742 C06-82720 D06p-01/38</p>	<p>At(8-E3, 12-S5N, 12-S5P) E(7-D12, 21-D2, 25) F(3-F2, 3-F3, 3-F6, 3-F10, 3-F16) 1 1 5</p> <p>$R_2 = \text{H, alkyl (opt. substd. by OH, alkoxy, CN, COOH, halo or CH}_2\text{CONH), cycloalkyl, aryl or opt. substd. heterocyclyl;}$ $R_3 = \text{H, alkyl (opt. substd. as } R_2\text{), or } R_2 \text{ and } R_3 \text{ together with alkylene, opt. interrupted by O, S, NH or NR. Also new are intermediates of formula (II)}$</p>
<p>C85-043136 Reactive dyes of formula (I) are new:</p> <div data-bbox="232 283 623 426"></div> <p>(I)</p> <p>D = organic dye residue; n = 1-4; B = direct bond or bridging gp. to a C atom in an aromatic carboxylic ring or to a C or N atom in a heterocyclic aromatic ring of D; R = H or opt. substd. 1-4C alkyl; R₁ = H, halo, opt. halo-substd. 1-4C alkyl or 2-4C alkenyl, NO₂, CN, SO₃H, opt. N-substd. carbamoyl or sulpha-moyl or sulphonate ester;</p>		<div data-bbox="909 296 1118 459"></div> <p>(II)</p> <p>R₈ = H or 1-4C alkyl, opt. substd. by MeO, OH, COOH or SO₃H; and R₉ = H, 1-4C alkyl (opt. substd. as R₈), phenyl (opt. substd. by Me, Et, OMe, OEt, Cl, COOH or SO₃H) or naphthyl substd. by SO₃H.</p> <p>USE (I) are useful for dyeing or printing OH- or N-contg. DE3335956-A*</p>

fibres, e.g. wool, silk, synthetic polyamide or polyurethane or natural or regenerated cellulose.

PREFERRED DYES



D' = sulfo- and/or COOH-contg. residue of mono- or poly-azo, metal complex, anthraquinone, phthalocyanine, formazan, azomethine, nitroaryl, phenazine or stilbene type dyes;

$R'_1 = \text{H or Me;}$

$R'_2 = \text{H; and}$

$R'_3 = \text{H; 2-, 3- or 4-sulphophenyl or disulphophenyl.}$

CLAIMED PREPARATION

2,4,5-Trifluoro-5- R_1 -pyrimidine (III) is reacted, in any suitable sequence, with D- B-N(R)H (IV) and HNR_2R_3 , opt. with isolation of intermediates.

In a modification, (IV) is replaced by a dye precursor, or e.g. an azo coupler, then this converted to (I) after condensation.

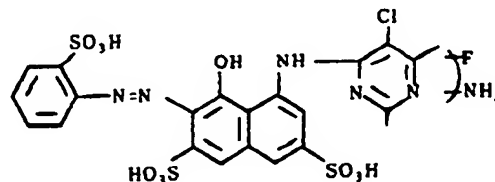
STARTING MATERIALS

(III; $R_1 = \text{Cl}$) is reacted with HNR_2R_3 , pref. in an aq. system at pH 6-7, to give (II).

EXAMPLE

65.5 g of 2-(2-sulphophenylazo)-1-hydroxy-8-(2,4-difluoro-5-chloropyrimidin-6-yl)amino-naphthalene-3,6-disulphonic acid (see Example 18 of DE1644171) was dissolved in 600 ml water. 25% NH_3 was added to pH 8.9 and the mixt. reacted at 50°C (maintaining the pH) until t.l.c. showed reaction was complete.

HCL was then added to pH 6.5, the prod. salted out, filtered off, dried and ground to give dye (Ia) which was freely soluble in water and dyed cotton red.



(71pp1251WADwgNo.0/0).

DE3335956-A